

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/477,354DATE: 11/01/95
TIME: 12:26:21

INPUT SET: S6975.raw

This Raw Listing contains the General
Information Section and up to the first 5 pages.

SEQUENCE LISTING

(1) General Information:

(i) APPLICANT: Hawley Nelson, Pamela
Lan, Jianqing
Shih, Pojen
Jesse, Joel A.

(ii) TITLE OF INVENTION: Peptide-enhanced Cationic Lipid
Transfections

(iii) NUMBER OF SEQUENCES: 9

(iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: Greenlee and Winner, P.C.
(B) STREET: 5370 Manhattan Circle, Suite 201
(C) CITY: Boulder
(D) STATE: Colorado
(E) COUNTRY: US
(F) ZIP: 80303

(v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: Floppy disk
(B) COMPUTER: IBM PC compatible
(C) OPERATING SYSTEM: PC-DOS/MS-DOS
(D) SOFTWARE: PatentIn Release #1.0, Version #1.30

(vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER: US 08/477,354
(B) FILING DATE: 07-JUN-1995
(C) CLASSIFICATION:

(viii) ATTORNEY/AGENT INFORMATION:

(A) NAME: Ferber, Donna M.
(B) REGISTRATION NUMBER: 33,878
(C) REFERENCE/DOCKET NUMBER: 32-95

(ix) TELECOMMUNICATION INFORMATION:

(A) TELEPHONE: (303) 499-8080
(B) TELEFAX: (303) 499-8089

(2) INFORMATION FOR SEQ ID NO:1:

(i) SEQUENCE CHARACTERISTICS:

ENTERED

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PATENT APPLICATION US/08/477,354DATE: 11/01/95
TIME: 12:26:24

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47 (A) LENGTH: 20 amino acids
48 (B) TYPE: amino acid
49 (C) STRANDEDNESS: single
50 (D) TOPOLOGY: unknown
51
52 (ii) MOLECULE TYPE: peptide
53
54 (iii) HYPOTHETICAL: NO
55
56
57
58
59 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
60
61 Gly Leu Phe Glu Ala Ile Ala Glu Phe Ile Glu Gly Gly Trp Glu Gly
62 1 5 10 15
63
64 Leu Ile Glu Gly
65 20
66
67 (2) INFORMATION FOR SEQ ID NO:2:
68
69 (i) SEQUENCE CHARACTERISTICS:
70 (A) LENGTH: 20 amino acids
71 (B) TYPE: amino acid
72 (C) STRANDEDNESS: single
73 (D) TOPOLOGY: unknown
74
75 (ii) MOLECULE TYPE: peptide
76
77 (iii) HYPOTHETICAL: NO
78
79
80
81
82 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:
83
84 Gly Leu Phe Lys Ala Ile Ala Lys Phe Ile Lys Gly Gly Trp Lys Gly
85 1 5 10 15
86
87 Leu Ile Lys Gly
88 20
89
90 (2) INFORMATION FOR SEQ ID NO:3:
91
92 (i) SEQUENCE CHARACTERISTICS:
93 (A) LENGTH: 20 amino acids
94 (B) TYPE: amino acid
95 (C) STRANDEDNESS: single
96 (D) TOPOLOGY: unknown
97
98 (ii) MOLECULE TYPE: peptide
99

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100 (iii) HYPOTHETICAL: NO
101
102
103
104
105 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:
106
107 Gly Leu Phe Gly Ala Ile Ala Gly Phe Ile Glu Asn Gly Trp Glu Gly
108 1 5 10 15
109
110 Met Ile Asp Gly
111 20
112
113 (2) INFORMATION FOR SEQ ID NO:4:
114
115 (i) SEQUENCE CHARACTERISTICS:
116 (A) LENGTH: 6 amino acids
117 (B) TYPE: amino acid
118 (C) STRANDEDNESS: single
119 (D) TOPOLOGY: unknown
120
121 (ii) MOLECULE TYPE: peptide
122
123 (iii) HYPOTHETICAL: NO
124
125
126
127
128 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:
129
130 Lys Phe Thr Ile Val Phe
131 1 5
132
133 (2) INFORMATION FOR SEQ ID NO:5:
134
135 (i) SEQUENCE CHARACTERISTICS:
136 (A) LENGTH: 12 amino acids
137 (B) TYPE: amino acid
138 (C) STRANDEDNESS: single
139 (D) TOPOLOGY: unknown
140
141 (ii) MOLECULE TYPE: peptide
142
143 (iii) HYPOTHETICAL: NO
144
145
146
147
148 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:
149
150 Gly Tyr Gly Pro Lys Lys Lys Arg Lys Val Gly Gly
151 1 5 10
152

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153 (2) INFORMATION FOR SEQ ID NO:6:

154

155 (i) SEQUENCE CHARACTERISTICS:

156 (A) LENGTH: 13 amino acids

157 (B) TYPE: amino acid

158 (C) STRANDEDNESS: single

159 (D) TOPOLOGY: unknown

160

161 (ii) MOLECULE TYPE: peptide

162

163 (iii) HYPOTHETICAL: NO

164

165

166 (ix) FEATURE:

167 (A) NAME/KEY: Modified-site

168 (B) LOCATION: 1..13

169 (D) OTHER INFORMATION: /product= "cysteine"

170 /label= modified

171 /note= "The C-terminal cysteine is covalently modified by

172 conjugation to spermine."

173

174

175 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

176

177 Gly Tyr Gly Pro Lys Lys Lys Arg Lys Val Gly Gly Cys

178 1 5 10

179

180 (2) INFORMATION FOR SEQ ID NO:7:

181

182 (i) SEQUENCE CHARACTERISTICS:

183 (A) LENGTH: 10 amino acids

184 (B) TYPE: amino acid

185 (C) STRANDEDNESS: single

186 (D) TOPOLOGY: unknown

187

188 (ii) MOLECULE TYPE: peptide

189

190 (iii) HYPOTHETICAL: NO

191

192

193 (ix) FEATURE:

194 (A) NAME/KEY: Modified-site

195 (B) LOCATION: 1..10

196 (D) OTHER INFORMATION: /product= "cysteine"

197 /label= modified

198 /note= "The C-terminal cysteine is modified by covalent

199 conjugation to spermine."

200

201

202 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:

203

204 Pro Lys Lys Lys Arg Lys Val Gly Gly Cys

205 1 5 10

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206
207 (2) INFORMATION FOR SEQ ID NO:8:
208
209 (i) SEQUENCE CHARACTERISTICS:
210 (A) LENGTH: 13 amino acids
211 (B) TYPE: amino acid
212 (C) STRANDEDNESS: single
213 (D) TOPOLOGY: unknown
214
215 (ii) MOLECULE TYPE: peptide
216
217 (iii) HYPOTHETICAL: NO
218
219
220 (ix) FEATURE:
221 (A) NAME/KEY: Modified-site
222 (B) LOCATION: 1..13
223 (D) OTHER INFORMATION: /product= "cysteine"
224 /label= modified
225 /note= "The N-terminal cysteine is modified by covalent
226 conjugation to spermine."
227
228
229 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:
230
231 Cys Gly Tyr Gly Pro Lys Lys Lys Arg Lys Val Gly Gly
232 1 5 10
233
234 (2) INFORMATION FOR SEQ ID NO:9:
235
236 (i) SEQUENCE CHARACTERISTICS:
237 (A) LENGTH: 7 amino acids
238 (B) TYPE: amino acid
239 (C) STRANDEDNESS: single
240 (D) TOPOLOGY: unknown
241
242 (ii) MOLECULE TYPE: peptide
243
244 (iii) HYPOTHETICAL: NO
245
246
247 (ix) FEATURE:
248 (A) NAME/KEY: Modified-site
249 (B) LOCATION: 1..7
250 (D) OTHER INFORMATION: /product= "cysteine"
251 /label= modified
252 /note= "The C-terminal cysteine is modified by covalent
253 conjugation to spermine."
254
255
256 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:
257
258 Lys Phe Thr Ile Val Phe Cys